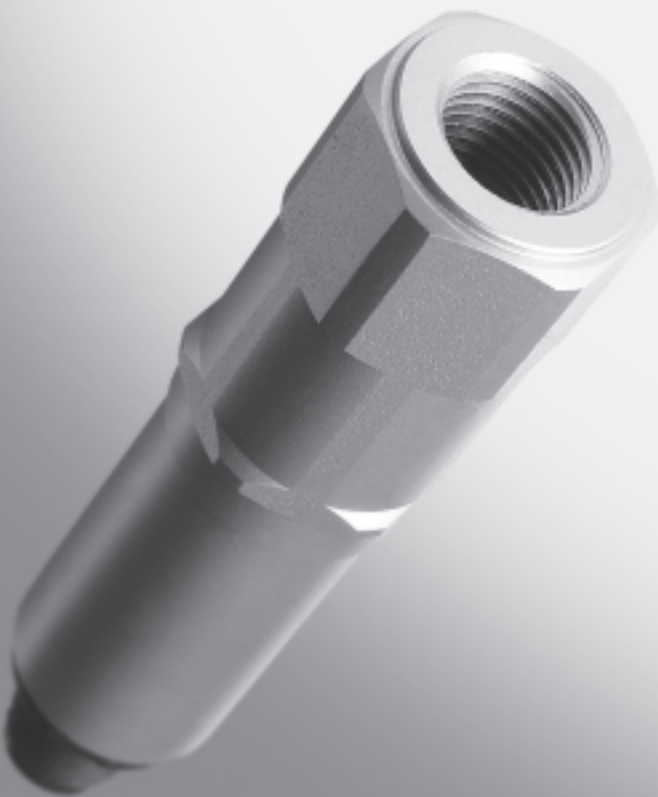


Pressure sensors SDET

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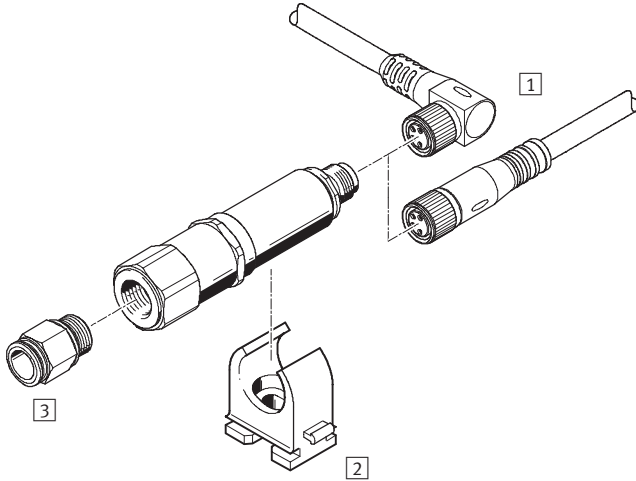
- Eight pressure measuring ranges
- Relative pressure measurement
- Analogue output 0.1 ... 10 V or 4 ... 20 mA
- Resistant to water and oils

Pressure sensors SDET

Peripherals overview, type code

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Peripherals overview



Accessories	→ Page
1 Connecting cable NEBU-M12 (signal output)	4 / 8.2-115
2 Pipe clamp PQ-RK-22 (included in the scope of delivery)	
3 Push-in fitting QS-1/4	

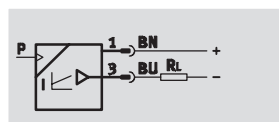
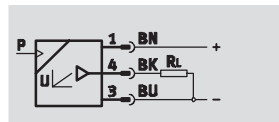
Type codes

		SDET	-	22T	-	D2	-	G14	-	U	-	M12
Sensor function												
SDET	Pressure sensor											
Size												
22T	Housing, width across flats 22											
Pressure measuring range												
B2	-1 ... +1 bar											
D2	0 ... 2 bar											
D6	0 ... 6 bar											
D10	0 ... 10 bar											
D16	0 ... 16 bar											
D25	0 ... 25 bar											
D50	0 ... 50 bar											
D100	0 ... 100 bar											
Pneumatic connection												
G14	Female thread G ³ / ₄											
Analogue output												
U	0.1 ... 10 V											
I	4 ... 20 mA											
Electrical connection												
M12	Plug M12x1											

Pressure sensors SDET

Technical data

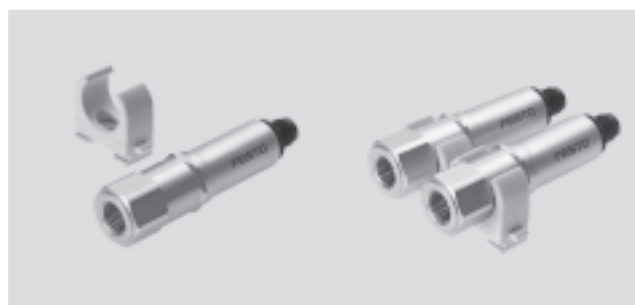
Function



 Voltage
15 ... 30 V DC

 Pressure
-1 ... +100 bar

 Temperature range
-20 ... +85°C



General technical data									
Pressure measuring range	[bar]	-1 ... +1	0 ... 2	0 ... 6	0 ... 10	0 ... 16	0 ... 25	0 ... 50	0 ... 100
Method of measurement	Piezoresistive pressure sensor								
Pneumatic connection	G1/4								
Measured variable	Relative pressure								
Accuracy FS ¹⁾	±1.5% ±1%								
Electrical connection	Plug M12x1, 4-pin, round design to EN 60 947-5-2								
Type of mounting	With female thread								
	Via accessories								

1) % FS = % of measuring range final value (full scale).

Electrical data		
Analogue output	0.1 ... 10 V DC	4 ... 20 mA
Operating voltage range	[V DC] 14 ... 30	8 ... 30
Protection against short circuit	Yes	
Protection against polarity reversal	For operating voltage	
Degree of protection	IP65	

Operating and environmental conditions									
Pressure measuring range	[bar]	−1 ... +1	0 ... 2	0 ... 6	0 ... 10	0 ... 16	0 ... 25	0 ... 50	0 ... 100
Overload capacity	[bar]	5	5	10	20	40	40	100	200
Operating medium		Compressed air Liquid media Gaseous media							
Ambient temperature	[°C]	0 ... 80							
Temperature of medium	[°C]	−10 ... 100							
Corrosion resistance class CRC ¹⁾		2							
CE symbol (declaration of conformity)		In accordance with EU EMC directive							
Certification		C tick							

1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Materials	
Body	High-alloy stainless steel
Sensor element	Al ₂ O ₃ 96%
Sealing ring	Fluorocarbon rubber
Pressure supply port	CrNi steel 1.4305
Plug housing	Polybuteneterephthalate
Material note	Free of copper and PTFE

Weights [g]	
	100

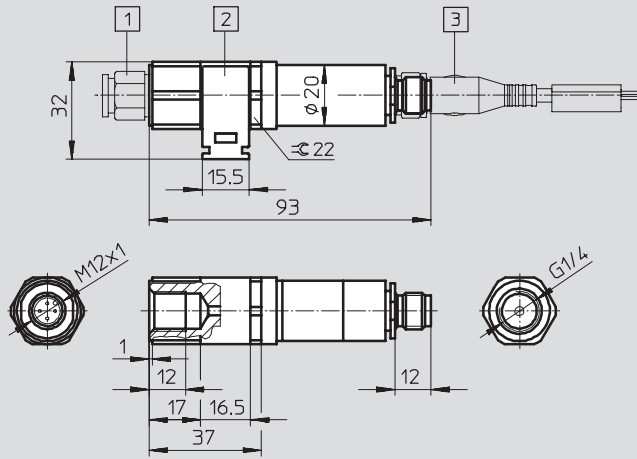
Pressure sensors SDET

Technical data

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Dimensions

Download CAD data → www.festo.com/en/engineering



- 1 QS push-in connection (accessories)
- 2 Pipe clamp PQ-RK-22 (included in scope of delivery)
- 3 Connecting cable NEBU-M12G5

Ordering data

Pressure measuring range [bar]								Part No.	Type
-1 ... +1	0 ... 2	0 ... 6	0 ... 10	0 ... 16	0 ... 25	0 ... 50	0 ... 100		
Analogue output 0.1 ... 10 V									
■	-	-	-	-	-	-	-	547 476	SDET-22T-B2-G14-U-M12
-	■	-	-	-	-	-	-	547 478	SDET-22T-D2-G14-U-M12
-	-	■	-	-	-	-	-	547 480	SDET-22T-D6-G14-U-M12
-	-	-	■	-	-	-	-	547 482	SDET-22T-D10-G14-U-M12
-	-	-	-	■	-	-	-	547 484	SDET-22T-D16-G14-U-M12
-	-	-	-	-	■	-	-	547 486	SDET-22T-D25-G14-U-M12
-	-	-	-	-	-	■	-	547 488	SDET-22T-D50-G14-U-M12
-	-	-	-	-	-	-	■	547 490	SDET-22T-D100-G14-U-M12
Analogue output 4 ... 20 mA									
■	-	-	-	-	-	-	-	547 475	SDET-22T-B2-G14-U-M12
-	■	-	-	-	-	-	-	547 477	SDET-22T-D2-G14-I-M12
-	-	■	-	-	-	-	-	547 479	SDET-22T-D6-G14-I-M12
-	-	-	■	-	-	-	-	547 481	SDET-22T-D10-G14-I-M12
-	-	-	-	■	-	-	-	547 483	SDET-22T-D16-G14-I-M12
-	-	-	-	-	■	-	-	547 485	SDET-22T-D25-G14-I-M12
-	-	-	-	-	-	■	-	547 487	SDET-22T-D50-G14-I-M12
-	-	-	-	-	-	-	■	547 489	SDET-22T-D100-G14-I-M12

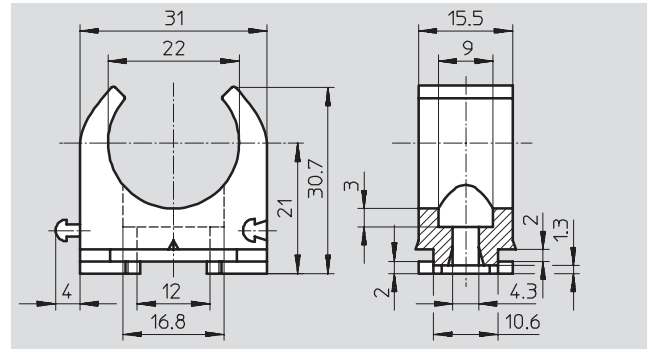
Pressure sensors SDET

Accessories

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Pipe clamp PQ-RK-22

Can be connected in series



Ordering data			
	Part No.	Type	PU ¹⁾
Pipe clamp	177 743	PQ-RK-22	10

1) Packaging unit quantity.

Ordering data – Connecting cable M12x1						Technical data ➔ 4 / 8.3-14	
	Assembly	Connection	Switch output		Cable length [m]	Part No.	Type
			PNP	NPN			
Straight plug socket							
	M12x1 locknut	5-pin	■	■	5	541 328	NEBU-M12G5-K-5-LE4
Angled plug socket							
	M12x1 locknut	5-pin	■	■	5	541 329	NEBU-M12W5-K-5-LE4

Ordering data – Push-in fitting				Technical data → Volume 3	
	Threaded connection	Push-in connector for tubing OD [mm]	Part No.	Type	
	G1/4	4	190 644	QS-G1/4-4	
		6	153 003	QS-G1/4-6	
		8	153 005	QS-G1/4-8	